



— Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

VOL. 20 — NO. 44

OAK RIDGE, TENNESSEE

Wednesday, November 2, 1966

United Fund Collects \$54,000 Of Goal To Date

In reports ending October 21, another division in Y-12 goes over its "needed share" goal, as the Superintendents Division exceeded its goal . . . a whopping 111 per cent!

Thus, with 66 per cent of the plant's returns in, the goal stands at 62 per cent or at \$54,087 of the \$88,000 goal.

Another division, Product Engineering, with 98 per cent of its employees reporting, goes over at an even 100 per cent.

Departments exceeding their goal on the first week's report were:

Accounting & Budget
Production Scheduling
Development Operations
Ceramics & Plastics
Mechanical Development
Process Analysis
Engineering Division
Mechanical Design
General Mechanical Engineering
Instrument Engineering
Tool Engineering
Special Projects
Safety
Training
Labor Relations
Benefit Plans
Cafeteria
Machine Tool Engineering
Material Control
Security
Statistical Services
SS Control
Radiation Safety
Quality Liaison
Secondary Quality Control

Joining these departments are new "over-the-goal" departments:

Graphics & Public Information
Superintendents
Process Analysis
Electrical Engineering
Specifications & Systems
Metallurgical Development
Laboratory Development
Chemistry Development
Mechanical Development
Machine Tool Engineering
Maintenance Division
Estimating & Tooling
Coordination
Shift Superintendents

Daily reports on progress of the United Fund are presented in slide fashion at the Cafeteria.

Wind-up reports were expected in this week, and final reporting on this year's drive will be made in next week's Bulletin.

Employees are asked to support their local United Funds through payroll deductions. The once-a-year drive is made in the plant . . . the only solicitation with management approval. No employee is asked to give to make "Carbide look good." We are

asked to give as good citizens of our community, to support the worthwhile agencies that exist because of UF money. Y-12ers give for many reasons, loyalty to Union Carbide should be the least of these reasons. We give because there is a need for every agency approved for the UF participation.

Through payroll deductions, employees may give to Anderson, Roane, Knox, Loudon and Morgan County Funds.

Stretching our giving through payroll deductions lightens the burden of giving on each of us, by spreading our gift out over equal payments. Thus, agencies may budget and plan their money, assured that income will be forthcoming.

Has your solicitor contacted you yet? Have you pledged your "needed share?"

Chemicals Division Names Vice President

James S. Freeman was recently appointed a vice president of the Chemicals Division of Union Carbide Corporation. He joined Union Carbide in 1949 at the South Charleston plant, worked in industrial relations in Louisville and Niagara. He later transferred to the New York office, and in 1961 became manager of industrial relations for the Chemicals and Olefins Divisions, and later for the Fibers and Fabrics Division as well.

He is an alumnus of Auburn University.

AEC Employees Change Clocks October 31

Local Atomic Energy Commission employees set back their clocks this week to comply with working hours in the AEC Headquarters office in Washington. Presently they worked from 7:45 a.m. until 4:30 p.m.

Their new hours, which went into effect Monday, October 31, are from 8:15 a.m. until 5 p.m. The change came about due to the expiration of Daylight Saving Time Sunday.

Rush Testifies In Senate Hearings

Kenneth Rush, president of Union Carbide Corporation, recently appeared before the U.S. Senate Committee on Finance. Representing the Manufacturing Chemists' Association, he spoke against the president's proposal to suspend the investment tax credit temporarily. As chairman of the board of the MCA, Rush reaffirmed the association's previous position that the most effective anti-inflationary measure would be an overall tax increase, together with rigid economies in federal expenditures — rather than suspension of the investment tax credit. He added that if Congress feels that the investment tax credit should be suspended, the MCA believes strongly that "relief from such suspension should be accorded to all taxpayers to the extent that on the suspension date they were committed in good faith to expansion of facilities . . ."

Rush said that it is well understood that a company cannot readily back off from a facility after substantial commitments have been made, including commitments to customers. He also pointed out that the wording in the House bill—which allows full investment credit when a commitment for more than 50 per cent of the cost of an "equipped building" has been made on the suspension date—was inequitable. He pointed out that in the chemical industry a facility is often composed almost entirely of machinery or equipment, with few, if any buildings.

Rush further recommended a change in wording so that plant facilities should be treated equally with equipped buildings. In closing, he expressed the association's pleasure that the bill under consideration continued the investment credit for water and air pollution control facilities.

Union Carbide's Third Quarter Sales Set Still Another Record

All Major Product Groups Share As Records Are Smashed During July-August-September

Union Carbide sales for the third quarter were \$574.1 million, nine per cent above 1965 third-quarter sales of \$524.9 million and a new record for any quarter, Birny Mason Jr., chairman of the board, stated recently. Despite continuing work stoppages caused by strikes at seven of the corporation's plants during the month of September, third-quarter earnings were maintained at \$46.8 million, or 94 cents a share, compared with earnings of \$57.9 million, or 96 cents a share, in the third quarter of 1965.

Both sales and earnings reached new highs for the first nine months of 1966. Sales for the period were a record \$1,671.4 million, nine and one-half per cent above sales of \$1,527 million for the corresponding period of 1965. Earnings increased to \$182.3 million, or \$3.02 a share, nine per cent above the \$167 million, or \$2.77 a share, earned in 1965.

All major product groups shared in the third-quarter sales increase. The following table gives a quarterly comparison of sales by product group.

Sales By Product Groups Millions of Dollars

	1965				
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Year
Chemicals	\$164	\$182	\$198	\$200	\$743
Plastics	88	92	89	90	359
Industrial Gases	93	97	96	99	385
Metals	75	82	73	71	301
Carbons	65	65	69	77	276
TOTAL	\$485	\$518	\$525	\$537	\$2,064

	1966		
	1st Qtr.	2nd Qtr.	3rd Qtr.
Chemicals	\$176	\$191	\$215
Plastics	97	101	95
Industrial Gases	103	109	105
Metals	80	88	78
Carbons	75	78	81
TOTAL	\$531	\$567	\$574

Mason continued that Union Carbide's earnings in the fourth quarter will continue to be affected by work stoppages, which at the present time, involve nine production facilities. The majority of these stoppages are in the Mining and Metals Division. Limited production has been continued in a number of these plants, and this production, supplemented by purchases and shipments from inventories, has permitted Union Carbide to supply its customers.

Operating margins in the third quarter were still being affected by abnormally high operating rates and upward pressure on costs generally, Mason stated. The high level of plant operation has been required by continuing strong customer demand. This has resulted in the need to purchase supplemental materials from outside sources, both for internal consumption and for resale to customers.

Several new production units were placed in operation during the third quarter, including the first unit of the Corporation's new petrochemical complex at Taft, Louisiana. The Taft unit doubled the Corporation's capacity for producing ethyleneamines, which are used in making agricultural chemicals, resins for crease-resistant textiles, gasoline and motor oil additives, and resins to impart wet strength to paper. The unit incorporates new technology developed by Union Carbide, which improves the manufacturing process and provides a higher degree of quality control.

A new expansion of glyoxal capacity also went on-stream, bringing the Corporation's total capacity to 60 million pounds a year. This increase will help meet the continuing demand of the durable-press textile producers and will also make possible increased sales to the paper industry, in which glyoxal is used as a coating additive to improve printing quality. A second facility for the production of the chemical is proceeding on schedule at the Taft complex. Expected to go on-stream in March, 1967, this new plant will increase Union Carbide's total yearly glyoxal capacity to more than 180 million pounds.

The Corporation's first nylon plant was started up at Arnprior, Ontario, in the third quarter. The plant, which will initially employ approximately 200, has a yearly capacity of 6 million pounds of nylon-6.

Union Carbide was notified in the third quarter that seven of its new product developments had been selected to

Continued on Page 4

Y-12's UNITED FUND CAMPAIGN

Second Report

Division	% Reporting	% Of Goal	Goal
Accounting, Budget & Scheduling	100	112	\$ 1,019.75
Assembly	93	74	3,667.82
Development	94	104	5,512.97
Engineering	99	105	8,377.81
Fabrication	77	61	19,599.06
Industrial Relations	77	73	1,356.12
Maintenance	64	46	20,467.38
Metal Preparation	42	47	9,242.03
Materials & Services	58	41	3,031.56
Shift Superintendents & Utilities	55	39	4,266.52
Superintendents	100	111	1,447.09
Technical Services	66	32	3,237.84
TOTAL PLANT	66	62	\$88,000.00

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member



Appalachian
Industrial
Editors'
Association

American Association Industrial Editors

OFFICE

Post Office Box Y
Oak Ridge, Tenn. 37830
Bldg. 9704-2 Room 137
Telephone 3-7100

Death Claims Two Old-Time Employees

Death came last week to two old-time Y-12ers, Mr. Edward B. Murphy, Machine Maintenance; and Mr. Ben N. Pinegar, Research Services.

Edward Ben Murphy was born in Knoxville, and worked most of his life in that area, after graduating from the Stair Technological Vocational School. He was with Fulton-Sylphon, Dempster



Mr. Murphy

Brothers, Knoxville Iron, and also worked in Y-12 from 1944 until 1946. He returned here August 11, 1958.

Survivors are his wife, Mrs. Bessie Lee Murphy; a son, James B. Murphy, at home on Butter-milk Road, Route 3, Concord; brother, Howard B. Murphy, Arlington, Virginia; sisters, Mrs. Walter Ellis, Heiskell, and Mrs. Henry Varner, Knoxville.

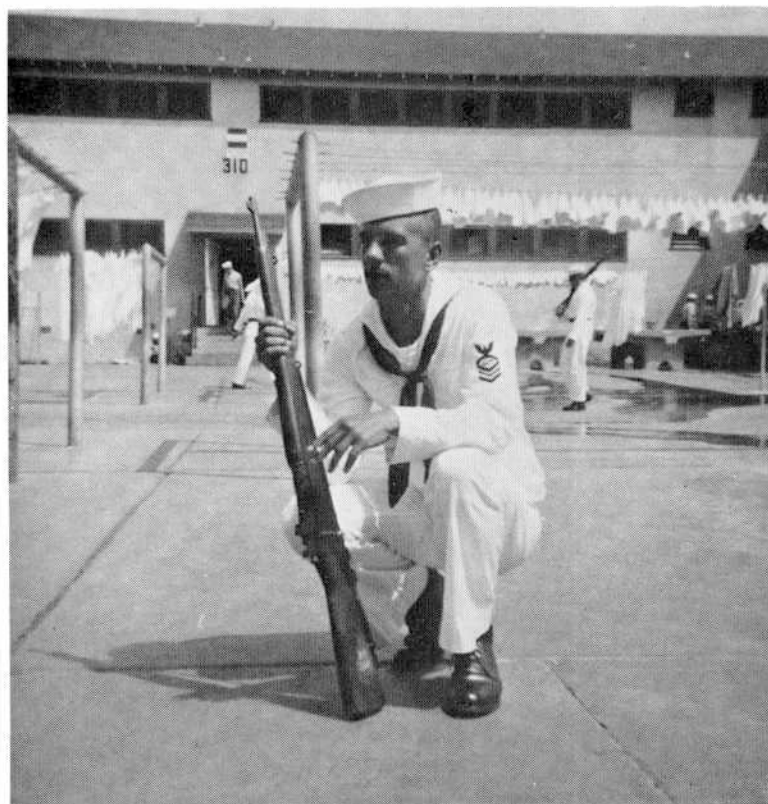
Funeral services were held Friday, October 28, at Mynatt's Chapel, Knoxville, with the Reverend Don Hubbard officiating. Interment followed in the Highland Memorial Cemetery with the Masons in charge at the grave.

Ben N. Pinegar, Research Services, died early Thursday morning at his Oak Ridge home. He was a native of Cordova, Alabama, and spent much of his early employment in the Chattanooga area with the Tennessee Valley Authority, the Hercules Powder Company, Warner Gear, and Dixie Mercery Company.

Survivors include his wife, Mrs. Dorothy McPhail Pinegar, 117 Paris Lane, Oak Ridge; a daughter, Mrs. Ronald Williams, Oak Ridge; a son, Donald E. Pinegar, Oak Ridge; sisters, Mrs. J. W. Lindsey, Miss Alice Pinegar, Mrs. Minnie P. Flowers and Mrs. Sam V. Nerren, all of Chattanooga; and one grandson, Charles Lee Williams.

Funeral services were held at 11 a.m. Saturday, October 29, at Martin Funeral Chapel, Oak Ridge, with the Reverend William C. Summar officiating. Burial followed in the Anderson Memorial Park.

Sincere sympathy is extended the Murphy and Pinegar families by fellow employees of the two men.



AH, BOOT TRAINING! If the above photograph with its leggings hanging on the line and the squared hat doesn't bring back memories, nothing will. Ronald McCarley, son of C. M., General Metal Fabrication Shop, recently completed his basic training in San Diego, and reports now to New London for submarine training.

McCarley Son Enters Submarine School In Second Knot Of U. S. Navy Career

C. M. McCarley, General Metal Fabrication Shop, recently enjoyed his son's "boot leave" from the U.S. Navy. Ronald just completed his basic training at the Naval Station in San Diego.

Ronald earned petty officer's stripes immediately after completing boot, thanks to two years of college at East Tennessee State University prior to his entering service. (The navy-man is a native-born Oak Ridger... making his arrival at the Oak Ridge Hospital... back in the early days.) Now it's to New London, Con-

necticut for submarine training for Ronald.

McCarley, himself, the papa, that is, is a Navy veteran also, serving during World War II.

There are two other sons at home... Stephen, attending South High — from where older brother Ronald graduated; and Roger, a student at Flenniken School, Knoxville.

An avid bowler, the young seaman traversed back and forth from the 424 Howell Avenue, Knoxville, home... to Johnson City. His dad said he has a "steady girl" in Johnson City.

Camera Club Sets Meeting Tuesday

The Carbide Camera Club's November meeting is set for next Tuesday, November 8, at Cheyenne Hall.

November's competition is "Landscapes," and December's will be "Open" which means anything goes.

Entries may be turned in two weeks prior to the December meeting.

Next week's program will be movies about Canada.

All members are urged to attend next week's meeting to vote on the proposed constitutional amendments. Officers elected in the October meeting were W. L. Russell, president; J. H. Simms, vice president; and Jeri Kobisk, secretary-treasurer.

Club members got in front of the cameras for a change on Monday, September 26, on WATO, Channel 7's Oak Ridge in Focus program. Don Hendrix presented the aims of the club, and Lee Andrews gave a short history. Bob Stephenson covered the monthly competitions, the annual salon and entries in the TVA and I Fair. Bud DuBose told about the Southern Contemporary Arts Festival... and all participated in a display of photographic equipment.

Membership in the Camera Club is restricted to Union Carbide employees. Dues are \$3 per year, with an additional \$1 for each immediate family member.



Two car pool members wanted from Victor Drive, Clinton Highway vicinity, Knoxville, to any portal, straight day. C. A. Crutchfield, home phone Knoxville 689-9946.

Ride wanted from Washington Pike, Fairmont Avenue Section, North Knoxville, to Bear Creek Portal, J. Shift. W. R. Clevenger, plant phone 3-5931, home phone Knoxville 523-6558.

Riders wanted from South Knoxville (U.T. Section, Middlebrook, along Solway) to North or East Portal, straight day. W. H. Sherrod, plant phone 3-5013, home phone Knoxville 577-0295.

Harwell's Allan Guest Physics Seminar Speaker

D. L. Allan, Atomic Energy Research Establishment, Harwell, England, will conduct this week's Physics Division Seminar. His subject will be "Isobaric Analogue Resonances in Inelastic Proton Scattering to Higher Excited States of ¹¹⁸Sn."

The seminar is set for Friday, November 4, in the East Auditorium of ORNL's 4500 building at 3:15 p.m.

'Let Me Introduce Myself'

(EDITOR'S NOTE: Cal Lunsford, Research Services, is an old friend of the Bulletin. He free-lances for the Loudon County Herald, Loudon, and passes on many of his interesting columns about the 'good old days' around town. A native Loudonese, he recently uncovered some highly interesting letters written by soldiers during the Civil War in the East Tennessee area. Included in the collection, is an ardent letter from a love-sick soldier, who was also sick of war.)

(The article below centers around personal safety. A safety-conscious employee, Lunsford is many times in the forefront of his department, taking part in programs, writing slogans, and suggestions to help others. Our sincere thanks go to Cal.)

By CAL LUNSFORD

Let me introduce myself. I am an accident. Maybe you already know me, and hate me for what I have done to your life. Some of you I have robbed of your eyesight, your arms or legs, and in thousands of cases, your very life. No, I am not very popular but I do a thriving business. In fact, I am hated very much and yet thousands of people become victims of my pitfalls. I can attribute my tremendous growth to many things. One of the most valuable assets is the attitude of "it can't happen to me." If any individual will only assume this attitude it is only a matter of time until he wears my brand.

There are other factors which contribute to my growth. I am very much in sympathy with the person who thinks safety is a waste of time. I will be meeting some of these this coming year. Some I will introduce to death, while others will be blind and crippled for life, not to mention those who will be cheated out of their homes and college education for their children because of the financial strain I will put on their lives. I will bring tears and heart-



aches to many families. Many widowed mothers will face the strain of raising children and paying funeral costs... and all because of me.

Sure! I will be around in '67. But don't worry. As long as I have you on my side we will do even better than we did in '66. I would like to leave you with a few things you can do if you want to meet me personally next year. Maybe I will be meeting you for the second time. I have given second chance to a few choice people.

And now for the list.

1. Don't think safely.
2. Let others worry about safety.
3. Take a negative attitude to everything pertaining to safety.
4. Assume the attitude that it's the other guy who is going to have this accident.
5. Disobey safety rules in the name of comfort or convenience.
6. Disregard the fact that accidents can happen — anywhere, anytime, anyplace.

Our getting together in '67 depends on YOU. Regardless of how much effort is put into safety we can still meet. Just follow the prescribed rules. Remember, it all depends on YOU.

Gibbs Son Serves In Special Mission



Sgt. James L. Gibbs

Exercise "Ready Devil II," a joint United States-British field training maneuver conducted recently at Ft. Carson, Colorado, involved a Y-12er's son. Sgt. James L. Gibbs, son of Amos A. Gibbs, Route 5, Clinton, participated in the mission.

The exercise brought together elements of Fort Carson's Fifth Mechanized Infantry Division and two units of the United Kingdom's Army—a mechanized infantry company of the Cheshire Regiment's First Battalion and an armored troop from the Royal Lancers.

The training involved infantry, armor and artillery maneuvering against aggressor unit and was designed to employ modern combat techniques utilized by both armies.

Sgt. Gibbs is a section chief in Battery C, First Battalion, 19th Artillery.

His father is in Y-12's Stores Department.

Technicians Group Organizes Chapter

The American Society of Certified Engineering Technicians this week announced plans for the first local chapter in East Tennessee. The number of certified technicians in this area has grown from 11 to over 60 in the last year and from 4,000 to nearly 8,000 nationally.

The local group, under the sponsorship of the National Society of Professional Engineers will meet tomorrow, Thursday, November 3, at 7:30 p.m. in the Oak Ridge Associated University Training Building Room 18, to begin plans for the local chapter. The constitution and by-laws will be ready for adoption and a nominating committee will have a report on a slate of officers.

All certified technicians and others interested in becoming certified should be present tomorrow.

The job classification "Engineering Technician" as defined by the National Society is "that person specifically engaged in planning, designing, drafting, procurement, construction inspection, operating and data reduction, or in any of the many technical capacities which fall below the level of the responsible engineer."



Y-12 TENNIS CHAMPS took their handsome trophies home last week to await another season. At left is Sam Campbell, who took the championship; and Bill Hackett, runner-up. Come back again, ye net-men!

Last Call Goes Out For Volley-Basketeers

The Recreation Department pages Volleyball and Basketball men again for winter leagues.

Play is set for opening the week of November 21.

There's a deadline on entering basketball teams . . . Friday, November 11. The telephone extension is 3-7109. If you haven't entered, you'd better be up and doing!

Competition for both leagues will be three-plant wide, as usual.

Shift-Men Plan Party Saturday

E, F, G, H and J shifters are at it again! Now they plan a big game night this Saturday, November 5. The first call is for 7:30 p.m. and sitting space is limited in the Ridge Recreation Hall, so you'd better get there early. Fire regulations allow only a certain number in the Coral Room.

There are 18 big prizes . . . and all 18 games go for \$1.50.

All Y-12ers are invited to come along and bring their families for the fun.

That's Saturday, November 5, at 7:30 p.m., in the Coral Room, Ridge Recreation Hall.

'Beauties Of Night' Next Foreign Film

The romantic French comedy, "Beauties of the Night," is the second movie in the Annual Foreign Film Series sponsored by the American Association of University Women. In French with English subtitles, the film stars Gina Lollobrigida and Gerard Philipe. It will be presented twice Sunday, November 6, at 7 and 9 p.m. in Jefferson Junior High School Auditorium.

Season ticket holders may use their tickets and single admissions may be purchased at the door for 75¢ each.

OCTOBER'S BRIGHT BLUE

Fall is the favorite time of the year for many people, with autumn colors and football. When else can a man walk down the street with a girl on one arm, a blanket on the other, and have nobody raise an eyebrow?

Mustangs, Novices In Mixed Deadlock

Three-point wins nudged two teams into the lead of the Y-12 Mixed Bowling League last week. The Mustangs corraled the Alley Cats and the Novices nailed the Twisters.

The Rollers, falling to second place by a mere half-point, managed to take two and one-half points from the Hits & Misses. The biggest win of the night went to the Roses 'N Thorns over the Gooters by three and one-half points.

George Cantrell, Mustangs, mustered high singles, scratch of 221, handicap of 238. C. R. Lively, Rollers, rolled high series . . . 561 and 624.

Barbara Hackett, Roses 'N Thorns, rolled women's highs with a 169 scratch single, 467 series scratch. Irene Carmack, Mustangs, rolled a 208 handicap game, 589 handicap series.

The Mustangs posted almost all the team highs . . . singles of 658 scratch, 785 handicap . . . and series of 1866 scratch. The Roses 'N Thorns blocked the rout by winning handicap series with 2282.

League standings follow:

Team	W	L
Mustangs	18	14
Novices	18	14
Rollers	17½	14½
Roses 'N Thorns	17½	14½
Gooters	16½	15½
Alley Cats	16	16
Twisters	15	17
Hits & Misses	9½	22½

Smallmouth Rodeo Brings Good Crowd

E, F, G, H and J Shifts enjoyed a Smallmouth Tournament Saturday, October 22 on Norris Lake. A total of 106 folks turned up for the affair, with 63 employees registering. (Families were welcome, too.)

B. A. Murr took the first prize weighing in with the largest smallmouth of the day. He was closely followed by Bill Eads, L. Thurman Jr., Fred Marler, Virgil Lovett, Tom Stephens, George Chilton, S. R. Anderson, Bill Barnes, C. G. Hubbard, L. E. Pate, and J. B. Allen.

Barbara Watkins captured a fine reel as a dock prize.

Balmy, beautiful October weather greeted the fishermen for the Star Dust Boat Dock affair.

Badgers Stretch C Bowling Lead

The Badgers barged out again last week in the C Bowling League to lengthen their short lead by pelting the Rodders for the full count. The only other total win of four points went to the Rounders over the Strikers.

Taking three were the Sunflowers sailing past the Fireballs, the Big Five better than the Invalids, and the Parbustars past the Rollmasters. Splitting two each were the Royal Flush and Hi-Lifers.

Four scratch bowlers popped up to tie for high game of the night . . . as J. E. Morgan and W. R. McGill, Rounders; A. T. Gladson, Strikers, and T. R. Butler, Parbustars, all rolled a 211 game. McGill's 241 was the high handicap game of the day. J. E. Morgan, Rounders, posted a 576 scratch series; while Tom Watts, Badgers, zeroed in with a 656 handicap series.

The Rounders swept team honors all the way across the board . . . singles of 914 scratch, 1055 handicap . . . series of 2621 and 3029 . . . the latter being season highs.

League standings follow:

Team	W	L
Badgers	22	6
Sunflowers	19	9
Rounders	18½	9½
Rodders	15	13
Strikers	14	14
Big Five	14	14
Royal Flush	12	16
Fireballs	11½	16½
Rollmasters	11	17
Parbustars	11	17
Invalids	10	18
HiLifers	10	18

Recreation



Saturday, November 5

GAME NIGHT: 7:30 p.m., Ridge Recreation Hall, E, F, G, H and J Shifts.

Monday, November 7

BOWLING: 5:45 p.m., C League, Ark Lanes.

TABLE TENNIS: 7 p.m., Wildcat's Den.

Tuesday, November 8

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gymnasium.

CARBIDE CAMERA CLUB: 8 p.m., Cheyenne Hall.

Wednesday, November 9

SMALLBORE RIFLE LEAGUE: 7 p.m., Clinton Indoor Range.

BOWLING: 8 p.m., Mixed League, Ark Lanes.

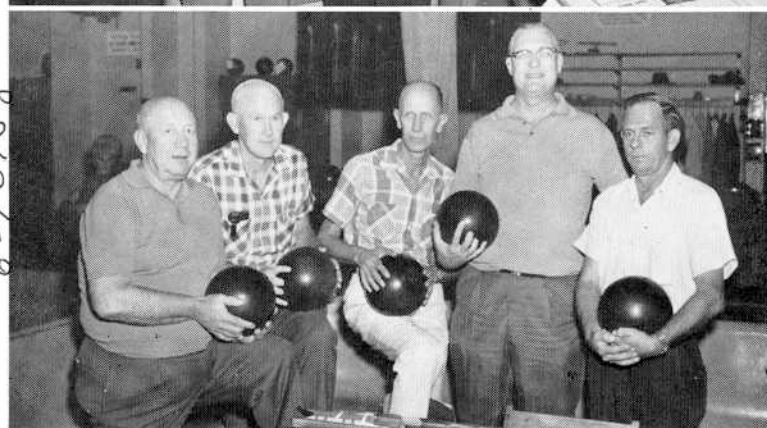
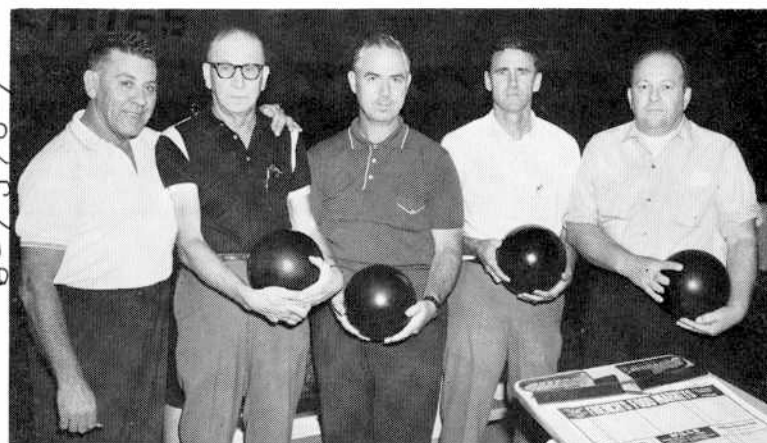
Thursday, November 10

BOWLING: 5:45 p.m., Classic League, Ark Lanes.

BADMINTON: 7 p.m., Jefferson Junior High School Gymnasium.

Friday, November 11

BASKETBALL: 4:30 p.m. Deadline for entering teams in 1966-67 league action.



CLASSEY CLASSIC BOWLING LEAGUE TEAMS are the Has Beens and the Rebels, seen above. In the top photo, the Has Beens are, from left, Hubert Tripp Sr., Roy Roberts, Captain Jack McLendon, Bobbie Rutherford and Dave Allison. In the lower shot are the Rebels, Captain U. G. Riddle, J. C. Bryan, Jack Spears, Norman Jarvis and L. E. Sikes.

Bumpers Break Tie In Classic Alley Race To Lead By 1 Point

The Bumpers broke the deadlock in the Classic Bowling League last week, moving out in front by a mere one point. They downed the All Stars for three points. The only four point sweep of the night went to the Rippers over the Playboys.

Other three point wins went to the Swingsters past the Has Beens, the Tigers over the Cubs, and the Wasps by the Eagles. The Smelters-Eightballs, Markers-Screwballs, Rebels-Splinters matches ended in draws, each team taking two points.

George Cantrell, Swingsters, was hot on singles . . . rolling a 246 scratch, 264 handicap game! Ernie Collins, Playboys, posted a 576 scratch series; while Elmer Green, Bumpers, rolled a 639 handicap series.

The Rippers ripped into singles

highs, rolling an 897 scratch tally. They shared the handicap single highs with the Splinters, each with 1047. The Swingsters scored a 2535 scratch series; while the Splinters returned to the boards with a 2952 handicap series.

League standings follow:

Team	W	L
Bumpers	21	11
Smelters	20	12
All Stars	18	14
Markers	18	14
Swingsters	18	14
Tigers	18	14
Eightballs	17	15
Rippers	17	15
Rebels	16	16
Cubs	15	17
Has Beens	15	17
Screwballs	15	17
Wasps	15	17
Playboys	12	20
Splinters	12	20
Eagles	9	23

Y-12 22-Team Is 7th Round Tops

The Y-12 Team was victorious in the seventh firing of the 22 Calibre Rifle League recently. They scored a 1421; 1447.892 handicap tally. Other team scores saw X-10 with 1409 and the Independents with 1408; as they fired a 1442.733; 1442.523 handicap total.

C. G. Brewster scored both highs for the Y-12 team . . . a scratch score of 289 and handicap one of 291.556. Jack Huff was second with 289, 289.861. B. L. Powers fired third in handicap firing with 286.974; W. D. Phillippi was third in scratch score with 284.

League standings follow:

Team	Points
X-10	31
Y-12	24
Independents	17

FLIGHT INSURANCE

Chemical progress contributes to many phases of aircraft safety. One little known phase is the use of fabric covers coated with a fluorocarbon to protect fan-jet engines between flights from moisture, birds and windblown objects. Inserted in the jet pods, the plastic-coated material also has high resistance to heat, fluids and fumes.

Players	W	L
Gordon Brewer, Y-12	9	0
Al Norris, Y-12	7	2
Ram Uppuluri, ORNL	6	0
Fred Shull, ORNL	5	4
Stanley Cantor, ORNL	4	5
Joe Lewin, ORNL	2	4
Art Weinberger, ORNL	0	9
Francois Kertesz, ORNL	0	9
Ed Gambill, Y-12	0	0
Ellis O'Rourke, Y-12	0	0
X League standings:		
William Motley, Y-12	9	0
Roy Huddleston, Y-12	8	1
Herb Mook, ORNL	6	3
Subba Raman, ORNL	6	3
Jack Stocksdale, ORNL	6	3
Ralph Einstein, ORNL	3	6
B. Bernard, ORNL	0	9
Ernest Schonfeld, ORNL	0	6

UNION CARBIDE CORPORATION NUCLEAR DIVISION

RETURN POSTAGE GUARANTEED

Post Office Box Y
Oak Ridge, Tennessee—37830

BULK RATE
U.S. Postage
PAID

Oak Ridge, Tenn.
Permit No. 71



"When November's chill surly blast . . . made fields and forests bare," more Y-12'ers enjoy important birthdays with Union Carbide Corporation. Congratulations.

20 YEARS

John A. Finchum, Utilities Administration, November 6.

15 YEARS

Charles E. Wuest, Dimensional Inspection, November 2.

Robert U. Clotfelter, Buildings, Grounds and Maintenance Shops, November 3.

Charles F. Jones, Area Five Maintenance, November 4.

Robert P. Waldrop, Production Scheduling, November 5.

Byron D. North, Engineering Mechanics, November 5.

Henry H. Sanning, Machine Maintenance, November 5.

James C. Mills, Area Five Maintenance, November 6.

John S. Steward, A-2 Shops, 9212, November 7.

Samuel M. Thompson, Area Five Maintenance, November 7.

James A. Weldon, Arc Melting, November 7.

William C. Hoppe Jr., Accounting and Budgets, November 7.

Lawson L. Wilcoxon, Dispatching Department, November 8.

10 YEARS

Elmer W. McGhee, Process Maintenance, November 5.

James B. Hopkins, Physical Testing Department, November 5.

Huge Argon Refinery On-Stream In Pennsy

The nation's largest argon refinery is now on-stream at Kittanning, Pennsylvania. The Linde Division's plant is capable of producing 2,000,000 cubic feet per day of ultra-high-purity argon (99.999%). The refinery processes crude argon that is produced in the air separation plant at Kittanning as well as shipped in from other Linde facilities. The complete refinery consists of a new 1,000,000-cubic-foot-per-day unit that uses non-lubricated compressors and an existing unit that has been expanded to increase daily capacity by 300,000 cubic feet.

Stellite Division Issues Nuclear Brochure

The Stellite Division of Union Carbide Corporation has issued a brochure on the nuclear applications of its alloys. The eight-page booklet describes typical uses of the division's heat-, wear-, and corrosion-resistant alloys in the nuclear industry. Sections are included on the use of alloys in fuel production and reprocessing, reactor components, and capsules for radioactive fuels.

English Drama Try-Outs Monday

Tryouts for the Oak Ridge Playhouse production "A Man For All Seasons" will be held next Monday, November 7. They will begin at 7:30 p.m. at the Playhouse in Jackson Square. A total of 11 men and three women from 20 years up are needed for the roles. No previous stage experience is required and readings are open to everyone.

"A Man For All Seasons," which received unanimous raves during its long run both in England and the USA, is an exhilarating play about the mortal conflict between young Henry VIII and a dedicated politician and churchman, Sir Thomas More. Henry wants a divorce to remarry, but More objects to his methods. To the king the choice is simple—either More agrees to the terms of the divorce or is destroyed. But More is made of stubborn material. He stands against his family, his friend the Duke of Norfolk, his enemy Thomas Cromwell, and the lesser men who are willing to sell their souls for higher political office.

The play will open January 20 for a minimum of six performances. For further information about tryouts, contact Director Paul Ebert, Oak Ridge telephone 483-6193.

SNT Meeting Set Tuesday At Marina

The Oak Ridge Section of the Society for Nondestructive Testing will meet next week. The meeting is set for next Tuesday, November 8, at the Oak Ridge Marina on River Road.

Dinner begins at 6:45 p.m. Steaks are \$1.75 for the dinner meet. The technical session will start at 8.

SNT announces its November guest speaker as George M. Corney, well known physicist and technical consultant with Eastman Kodak Company, Rochester, New York.

Corney holds a BA degree from Cornell University, and most of his 30 years of industrial experience has been on research on physical and photographic problems in medical and industrial radiography, radiation monitoring and high-energy radiations at the Kodak Research Laboratories.

His long list of publications includes **Radiography in Modern Industry** and handbook to **Nondestructive Testing Handbook**, **Radiation Hygiene Handbook** and **Medical Physics**.

The well known Eastman physicist will speak on "The Latent Image."

All members and guests of the SNT are cordially invited to the meeting.

He saved a minute, and lost a limb; now there's more time and less of him!



CAL LUNSFORD RECEIVES a safety award from Dave Jennings, right, for a suggestion submitted on personalizing safety. Other winners in the Maintenance Department, from left, are Lennie Eskridge, A. D. Nine, R. W. Miller, E. E. Cook, and U. H. Ingle. T. C. Land, C. J. Price, J. B. Farmer, H. R. Bailey and Jack Gose received honorable mention in the September competition.



Katy Kutkost
SEZ:

It's always open season. Y-12 recently got a letter from the manager of the Atomic Energy Commission's Oak Ridge Operations, Sam Sapirie. Sam says: "Since not quite three months remain in the current reporting period (ending December 30, 1966), now is the time to review your cost reduction performance to see if an individual effort is necessary to sustain our record of progress."

Amen, Sam, Amen. Here's the green sheet count to date:

Division	Goal	Sub. mitted
Accounting	10	0
Assembly	35	2
Development	80	4
Engineering	130	9
Fabrication	90	1
Industrial Relations	15	0
Maintenance	270	77
Materials & Services	30	2
Metal Prep	40	28
PSS & Utilities	15	0
Technical	100	10

Since not quite two months remain til December 30 . . . think a little before the deadline.

A TIME OF LIFE

Adolescence has been called a patience-testing stage; why call them teen-agers, when it's the parent that age.

Maintenance Stages Contest On New Safety Suggestions

The Maintenance Division recently sponsored a safety contest for all of its employees. Entries consisted of three categories: constructive safety suggestions for the improvement of tools, equipment and processes; brief explanations of unsafe acts or practice now being committed and suggested corrective actions; and worthwhile suggestions for improving division or plant safety in general.

Awards were made for the top suggestions in departments: Maintenance Services; Buildings, Grounds and Maintenance Shops; Process Maintenance; Research Services; Electrical; and Area Five Maintenance.

The winners were announced recently.

L. B. Eskridge, Maintenance Services, took the first award for a safety limerick stressing the need for constant safety awareness everywhere all the time.

R. W. Miller, Buildings, Grounds and Maintenance Shops, submitted a suggestion regarding the recognition of employees who perform their jobs over a long period of time without an accident. He emphasized the need for an added incentive to individuals to work safely rather than just a general safety program. He suggested recognition of individuals by certificate or other awards.

Ladder Safety

A. D. Nine, Process Maintenance,

dealt with ladder safety. Nine proposed the painting or identifying of the top portion of ladders reminding men not to climb beyond the second to last rung, or step from the top of the ladder.

C. W. Lunsford, Research Services, believes safety programs should be geared more to personal responsibilities. Instead of generalities such as we, our, or they . . . Lunsford suggested that we direct our safety instructions or training to "You," "Me," etc. In other words, "Watch your hands today," not "Let us watch our hands today."

E. E. Cook, Electrical, dealt with hand injuries. He suggested placing stickers on power saws, drills, lathes, etc. dramatizing the loss of a finger or hand.

Ladder Storage

In Area Five Maintenance, U. H. Ingle suggested a proper way to use and store ladders. Centralized ladder racks could be installed and ladders checked out and in to prevent them from being left lying out in the weather or somewhere else where they could be damaged.

There were 79 suggestions in all submitted by Maintenance men and women throughout the division. Many contained valuable tips and corrective action is being taken on a good number of them.

Honorable Mentions

In each department, an 'honorable mention' also went to suggestors. Those receiving honorable mention were: T. C. Land, Buildings, Grounds and Maintenance Shops; C. J. Price, Process Maintenance; J. B. Farmer, Research Services; H. R. Bailey, Electrical; and Jack Gose, Area Five Maintenance.

The Maintenance Division, in many cases, sets the pace for the plant in interesting and diversified safety programs. Their unusual and interesting dramatizations have been covered many times in the Bulletin.

Disconnect the power before any repair. You have no fingers that you can spare.

3rd Quarter Sales Set Record

Continued from Page 1

receive research awards. The new developments include a porous metal sheet suitable for use in fuel cell electrodes and in water desalination equipment; two new lasers, one of which is three times as bright as any commercially available laser today; borallory laboratory ware, which provides sufficient thermal shock resistance to withstand repeated cycling to temperatures as high as 2,000 degrees Centigrade and back; parylene pellicles, which are thin membranes resistant to high temperatures and solvents and suitable of use in nuclear measuring devices; zirconia textiles, which combine the flexibility and porosity of conventional textile forms with the thermal and chemical stability characteristics of zirconia; and tungsten textile yarn, the first commercially available flexible form of tungsten. These new products are in various stages of development and commercialization.